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PATENT-DRAFT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. Please amend claim 12 and add new claims 27-29 as indicated below.

Listing of Claims:

Claims 1-11 (Canceled).

Claim 12. (Currently amended) A method of identifying in silico each compound of a virtual library of compounds comprising:

dissecting said compounds into constituent fragments, where the constituent fragment is associated with at least one reagent, which represents a necessary chemical to introduce the constituent fragment into the compound, and where the dissecting is based on the ease of synthesis of the compound from the constituent fragments;

adding said constituent fragments together in sequential synthesis rounds defining thereby a synthetic method for the compound from the constituent fragments; and

tracking the virtual synthetic addition of constituent fragments of said compounds according to the synthetic method for the compound, thereby identifying each compound of the virtual library.

Claims 13-26 (Canceled).

- 27. (new) The method according to claim 12 wherein the dissecting is based on commercial availability of constituent fragments.
- 28. (new) The method according to claim 12 wherein the synthetic method for the compound uses known reactions and reagents.
- 29. (new) The method according to claim 12 wherein the dissecting is characterized by formation of constituent fragments for which the reverse transformation is known.